

ASSIGNMENT

We, Roger Frechette, of Reading, Massachusetts and Todd E. Bowser, of Charlton, Massachusetts, in consideration of One Dollar and other valuable consideration paid to us by

PARATEK PHARMACEUTICALS, INC.

a corporation of Delaware, having its principal place of business at 75 Kneeland Street, Boston, MA 02111, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

PARATEK PHARMACEUTICALS, INC

its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in

7- AND 9-CARBAMATE, UREA, THIOUREA, THIOCARBAMATE, AND HETEROARYL-AMINO SUBSTITUTED TETRACYCLINE COMPOUNDS

described in an application

executed by us of even date herewith and about to be filed
 Serial No. 09/823,884, filed on March 30, 2001

in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said corporation and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this 13 day of August, 2001.

By: 
Roger Frechette

Commonwealth of Massachusetts)
)ss
County of Essex)

Then personally appeared the above named Roger Frechette, and acknowledged the foregoing instrument to be his free act and deed, before me, this day of August, 2001.

15th
Adrienne D. Orton - 3-est
Notary Public

My commission expires: Nov. 17, 2006

WITNESS my hand and seal this 15th day of August, 2001.

By: Todd E. Bowser
Todd E. Bowser

Commonwealth of Massachusetts)
)
County of)
)

Then personally appeared the above named Todd E. Bowser and acknowledged the foregoing instrument to be his free act and deed, before me, this day of August, 2001.

Adrienne D. O'Brien - Best
Notary Public

My commission expires: Aug 17 2006

ASSIGNMENT

We, Mark L. Nelson, of Wellesley, Massachusetts, and Mohamed Y. Ismail, of Bedford, Massachusetts, in consideration of One Dollar and other valuable consideration paid to us by

TRUSTEES OF TUFTS COLLEGE

AND

PARATEK PHARMACEUTICALS, INC.

corporations of Massachusetts and Delaware, respectively, having their respective principal places of business at Ballou Hall, 4th Floor, Medford, MA 02155, and 75 Kneeland Street, Boston, MA 02111, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

TRUSTEES OF TUFTS COLLEGE

AND

PARATEK PHARMACEUTICALS, INC.

their successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in

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SUBSTITUTED TETRACYCLINE COMPOUNDS

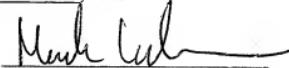
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in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said corporation and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this 15th day of August, 2001.

By: 
Mark L. Nelson

Commonwealth of Massachusetts)
County of Middlesex)
 ss

Then personally appeared the above named Mark L. Nelson and acknowledged the foregoing instrument to be his free act and deed, before me, this 15th day of August, 2001.

Adrienne D. Orton - Notary
Notary Public
My commission expires: Nov. 17, 2006

WITNESS my hand and seal this 15 day of August, 2001.

By: Mohamed Y. Ismail
Mohamed Y. Ismail

Commonwealth of Massachusetts)
County of Barnstable)ss
)

Then personally appeared the above named Mohamed Y. Ismail and acknowledged the foregoing instrument to be his free act and deed, before me, this 15th day of August, 2001.

Adrienne D. Oster Best
Notary Public

My commission expires: Nov. 17, 2006

ASSIGNMENT

I, Stuart B. Levy, of Boston, Massachusetts, in consideration of One Dollar and other valuable consideration paid to me by

TRUSTEES OF TUFTS COLLEGE

a corporation of Massachusetts, having its principal place of business at Ballou Hall, 4th Floor, Medford, MA 02155, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

TRUSTEES OF TUFTS COLLEGE

its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in

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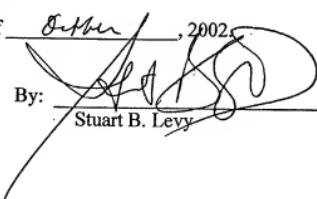
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in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And I agree, for myself and my executors and administrators, with said corporation and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And I do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this 8th day of October, 2002.

By: 
Stuart B. Levy

Commonwealth of Massachusetts)
County of Middlesex)ss
)

Then personally appeared the above named Stuart B. Levy and acknowledged the foregoing instrument to be his free act and deed, before me, this 7 day of October, 2002.

Adrienne Orten - Notary
Notary Public

My commission expires: Nov 12, 2006